

2): 1:200 Dilution (2.46 µl)

Read avg time: 0.50		Read Mode: [Abs]	
Sample	Wavelength	Reading	
CD28 440 1:200	1 260.0nm	-0.3000 A	0.6
CD28 STOP 1:200	2 260.0nm	0.1749 A	→ 34.98 → 0.1
	3 260.0nm	0.1326 A	→ 36.52 → 0.1
	4		

total Amount:

gute Ausbeute !!!
 CD28/440: 30nm ✓
 CD28/STOP: 20nm ✓

PCR: in 50 µl (int. rich)

5 µl Taq buffer 10x

1 µl CD28 in Oligoscript: (3.5 µg/µl)

4 µl dNTP: (to 2.5 mM from CT) ⇒ 200 µM

✓ 20 ← 20 µl 160

4 µl MgCl₂ [25 mM] → 2 mM

a little bit to less
 7 µl CD28 [0.148 mM] → 1:100 : 0.094 µM → 0.15 µM
 148 µM → 0.2 µM

10 µl CD28_{STOP} [0.1 mM] → 1:100 : 1 µM → 0.2 µM

0.5 µl Taq [5 U/µl]

Cycle time 19: 10' 95°C

1' 55°C

1' 55°C

3' 72°C extension

→ 40 cycles

} 40 cycles

-41-

1.5% Gel:

2) 5µl PCR → 1078 bp

1) 4µl XbaI (2µg)



- 320bp

→ Phosphorylieren / Füllen

in 35µl 800µl

+ 35µl Nuc

20' °C

- 6 30'

- 1 x w in 70% EtOH

25µl H₂O group → 2µl on 1.5% Gel

6µl XbaI (3µg)

group

Not I Digest aus Wright: in 30µl

20µl DNA

3µl H₂O

3µl NEB 3

3µl 10x BSA

1µl Not I

→ 3µl store for T-Vector-Ligation!

1724

20µl BstI - Digest G.N

30µl Not-Digest

✓ 15µl H₂O

✓ 5µl BSA 100x

✓ 3µl NEB 3

2µl BstI

→ 21.2.96

NEW Oligo synthesis:

CD28 441:

CD28/441 Primer: 5'-ataagtat gcg gcc gca att gaa gtt atg tat cct cct cc-3'

[=1μM/ml]

☐ Not 1

402.5

Tm=66°C

UltraFast Cleavage and Deprotection Kit Instructions



Remove the synthesis column from the Oligo 1000 after completion of the synthesis. You should wear gloves to protect both you and the DNA.



Use a pipettor to measure 0.5 to 1 ml of AMA reagent into one of the supplied vials. 0.5 ml is sufficient for 30 nmole and 200 nmole syntheses. 1000 nmole syntheses require 1 ml. **Important Note:** The vials supplied with this kit contain a special fluorocarbon O-ring. Common O-ring materials such as EPDM, Viton, silicone, etc. are not acceptable and will leach material into the AMA reagent.



Attach the supplied syringe to the top of the synthesis column. Twist slightly to ensure a tight fit.



Attach the vial containing the AMA reagent to the synthesis column. Tighten firmly.



Invert the vial/column/syringe assembly so that the syringe is at the bottom and pump the syringe several times to make sure all air is displaced from the column.



Position the vial/column/syringe assembly so that the vial is at the bottom. Pump the syringe several times to push all the AMA reagent into the vial.

Remove the vial.

Cap the vial tightly.



Place the vial in a heat block. A variety of heat/time regimes are acceptable. The following is a guide. (This is based on a heat block containing water at the listed temperatures. If no water is present then add 5 minutes to the listed times to allow for the slower temperature equilibration in air.)

165°C 5 minutes

55°C 10 minutes

37°C 30 minutes

25°C 90 minutes



To prevent sample blowout, cool the vial to room temperature or less before opening. (A brief exposure to ice water is sufficient.)

Dry the sample to remove the AMA reagent before using. Drying by SpeedVac, lyophilization, or with a stream of gas are all acceptable. Do not dry by heating alone.

→ Resusp. in 200μl H₂O

✓ + 2μl ^{1H}H → HgCl₂/HgSO₄

→ 10 min H₂O

✓ 1 ml C₁₈ H₂O

→ 40' ~~30'~~ - 80'

→ 20' @ 40°C

→ Dissolve in

✓ 200μl H₂O

} forgotten !!!

→ aliquoted in 5 tubes → 15'

OD: 1:200 selection (2 μl each 400 μl):

-45-

CD28440 PCR fragment (NotI/BstI digested)

→ elution out of Re gel for cloning:

1.2% CM-Gel

2X 50 µl CD28440 (NotI/BstI)

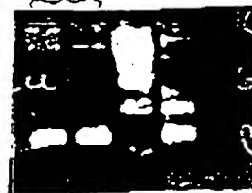
but PCR (3 µl)

Spl. PCR-CD28440

Spl. negative control w/o template V

CD28440
NotI/BstI

CD28440-PCR



cut off out!

⇒ S.T.V-STA (NotI/BstI) → preparative Gel from 16246 (0.8%)

↓
Cunningham 17/196



Cut out

melting in 65°C

↓

spin column